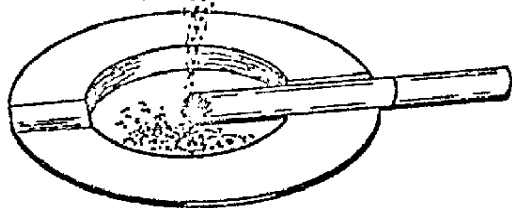




#16
Federal Trade Commission

Report of

**"TAR" AND NICOTINE CONTENT
OF THE SMOKE
OF 136 VARIETIES
OF CIGARETTES**



MARCH 1975

PM3001059314

REPORT OF "TAR" AND NICOTINE CONTENT OF
THE SMOKE OF 136 VARIETIES OF CIGARETTES
March 1975

The Federal Trade Commission's Laboratory has determined the "tar" (dry particulate matter) and total alkaloid (reported as nicotine) content of 136 varieties of cigarettes. The laboratory utilized the Cambridge filter method with the following specifications as set forth in the Commission's announcement of July 31, 1967:

1. Smoke cigarettes to a 23 mm. butt length, or to the length of the filter and overwrap plus 3 mm. if in excess of 23 mm.
2. Base results on a test of 100 cigarettes per brand, or type.
3. Cigarettes to be tested will be selected on a random basis, as opposed to "weight selection".
4. Determine particulate matter on a "dry" basis employing the gas chromatography method published by C. H. Sloan and B. J. Sublett in Tobacco Science 9, page 70, 1965, as modified by F. J. Schultz' and A. W. Spears' report published in Tobacco Vol. 162, No. 24, page 32, dated June 17, 1966, to determine the moisture content.
5. Determine and report the "tar" content after subtracting moisture and alkaloids (as nicotine) from particulate matter.

Concerning the 136 varieties tested, 23 were capable of being smoked to 23 mm. or to an average range of between 23 and 25.0 mm. The butt lengths of the other 113 varieties tested ranged from 23 mm. to an average of between 38.8 and 40.0. The butt lengths of 71 of the 136 varieties tested exceeded 30 mm.

The samples used were obtained by attempting to purchase two packages of each variety of cigarettes during September and October 1974 in each of 50 geographic locations throughout the country. All varieties of cigarettes were not available in each of the 50 geographic locations and in these instances, one or more additional packages of cigarettes were purchased in those geographic locations where respective varieties were available. The samples utilized in the tests were representative of the 136 varieties of cigarettes as available throughout the country at the time of purchase.

In the Table listing the cigarette varieties in alphabetical order the "tar" content is reported to the nearest 1/10 milligram and the nicotine to the nearest 1/100 milligram, each with appropriate statistical values. The average weight is reported in grams per cigarette and the butt length range to the nearest 1/10 millimeter. In all other tables the average weight and butt length columns and the figures representing the standard deviation of the mean have been eliminated; the "tar" figures have been rounded off to whole numbers and nicotine figures to tenths of milligrams. Two tables respectively list varieties in increasing order of "tar" values and in increasing order of nicotine values, and other two lists tabulate the current and four previous tests. Accordingly, "tar" and nicotine figures in these tables and lists represent rounded off averages without indication of their precision.

BRAND	TYPE ¹		AVERAGE WEIGHT ²	BUTT LENGTH ³	TPM dry ⁴ *	NICOTINE ⁵ *
Alpine	F, M, SP	85 mm	0.9899	28.3 - 30.0 mm	13.4 ± 0.3	0.83 ± 0.02
Alpine	F, HP, M	100 mm	0.9392	33.5 - 35.0 mm	16.2 ± 0.3	0.92 ± 0.01
Belair	F, M, SP	85 mm	0.9858	28.0 - 30.0 mm	14.6 ± 0.3	1.05 ± 0.02
Belair	F, M, SP	100 mm	1.1222	34.0 - 36.0 mm	16.8 ± 0.3	1.19 ± 0.03
Benson & Hedges	F, HP	70 mm	0.8676	32.5 - 34.0 mm	9.1 ± 0.3	0.53 ± 0.02
Benson & Hedges	F, HP	85 mm	1.0483	26.8 - 28.5 mm	16.0 ± 0.3	1.12 ± 0.03
Benson & Hedges 100's	F, SP	100 mm	1.1195	34.5 - 36.0 mm	17.0 ± 0.3	1.08 ± 0.03
Benson & Hedges 100's	F, M, SP	100 mm	1.0839	34.5 - 36.0 mm	16.8 ± 0.3	1.11 ± 0.02
Bull Durham	F, SP	85 mm	1.1906	27.5 - 29.0 mm	28.1 ± 0.5	1.76 ± 0.03
Camel	NF, SP	70 mm	0.9088	23 mm	24.7 ± 0.5	1.61 ± 0.03
Camel Filter	F, SP	85 mm	0.9371	27.5 - 29.0 mm	19.4 ± 0.3	1.31 ± 0.03
Carlton 70's	F, SP	70 mm	0.8344	33.0 - 34.5 mm	2.4 ± 0.2	0.18 ± 0.01
Carlton	F, SP	85 mm	1.0442	32.0 - 34.3 mm	3.9 ± 0.2	0.28 ± 0.02
Carlton	F, M, SP	85 mm	1.0289	32.5 - 34.5 mm	3.9 ± 0.2	0.29 ± 0.01
Chesterfield	NF, SP	70 mm	0.8869	23 mm	23.9 ± 0.5	1.37 ± 0.03
Chesterfield	NF, SP	85 mm	1.0563	23 mm	28.6 ± 0.7	1.69 ± 0.04
Chesterfield	F, SP	85 mm	0.9485	26.0 - 28.0 mm	18.2 ± 0.2	1.22 ± 0.02
Chesterfield	F, M, SP	85 mm	0.9377	26.0 - 28.0 mm	18.5 ± 0.3	1.16 ± 0.02
Chesterfield	F, SP	101 mm	1.1193	32.0 - 34.0 mm	19.6 ± 0.2	1.34 ± 0.03
Domino	NF, SP	85 mm	1.2758	23 mm	26.1 ± 0.6	1.28 ± 0.07
Domino	F, SP	85 mm	1.1537	23.0 - 27.5 mm	22.5 ± 0.7	1.18 ± 0.04
Doral	F, SP	85 mm	1.1265	32.5 - 33.7 mm	14.5 ± 0.4	1.04 ± 0.03
Doral	F, M, SP	85 mm	1.1473	32.0 - 34.0 mm	13.1 ± 0.4	0.93 ± 0.03
DuMaurier	F, HP	85 mm	1.0369	28.5 - 31.0 mm	15.2 ± 0.4	1.03 ± 0.03
English Ovals	NF, HP	70 mm	0.9533	23 mm	21.9 ± 0.3	1.52 ± 0.04
English Ovals	NF, HP	85 mm	1.1601	23 mm	28.9 ± 0.5	2.16 ± 0.07
Eve	F, SP	100 mm	1.0963	28.0 - 29.5 mm	18.9 ± 0.3	1.28 ± 0.03
Eve	F, M, SP	100 mm	1.0641	32.5 - 34.0 mm	18.8 ± 0.3	1.21 ± 0.02
Fatima	NF, SP	85 mm	1.0915	23 mm	27.6 ± 0.4	1.63 ± 0.03
Galaxy	F, SP	85 mm	1.0720	27.0 - 30.3 mm	14.8 ± 0.3	0.99 ± 0.03
Half & Half	F, SP	85 mm	1.1677	27.0 - 29.0 mm	24.7 ± 0.3	1.82 ± 0.04
Herbert Tareyton	NF, SP	85 mm	1.1313	23 mm	29.1 ± 0.6	1.79 ± 0.04
Home Run	NF, SP	70 mm	0.8638	23 mm	20.7 ± 0.4	1.60 ± 0.05
Iceberg 100's	F, M, SP	100 mm	1.3010	37.0 - 40.0 mm	8.9 ± 0.2	0.62 ± 0.01
Kent	F, HP	80 mm	0.9184	26.5 - 28.0 mm	15.3 ± 0.4	0.91 ± 0.02
Kent	F, SP	85 mm	0.9758	27.0 - 30.0 mm	16.2 ± 0.3	0.98 ± 0.02
Kent	F, SP	100 mm	1.1135	32.5 - 34.5 mm	18.6 ± 0.3	1.19 ± 0.03
Kent	F, M, SP	100 mm	1.0941	32.5 - 34.5 mm	18.0 ± 0.3	1.17 ± 0.02
King Sano	F, SP	85 mm	1.1314	27.0 - 29.5 mm	7.9 ± 0.2	0.28 ± 0.01
King Sano	F, M, SP	85 mm	1.1404	26.7 - 28.5 mm	7.4 ± 0.3	0.28 ± 0.01
Kool	NF, M, SP	70 mm	0.8887	23 mm	19.2 ± 0.4	1.17 ± 0.03
Kool	F, M, HP	80 mm	0.9417	26.0 - 29.0 mm	16.1 ± 0.2	1.22 ± 0.03
Kool	F, M, SP	85 mm	0.9783	35.0 - 37.0 mm	16.3 ± 0.2	1.25 ± 0.02
Kool Milds	F, M, SP	85 mm	0.9746	32.5 - 34.0 mm	13.3 ± 0.3	0.82 ± 0.03
Kool	F, M, SP	100 mm	1.1221	29.0 - 31.0 mm	17.2 ± 0.4	1.22 ± 0.02
L & M	F, HP	80 mm	0.8852	27.3 - 28.5 mm	17.6 ± 0.3	1.16 ± 0.02
L & M	F, SP	85 mm	0.9478	27.0 - 28.5 mm	18.3 ± 0.5	1.20 ± 0.04
L & M	F, SP	100 mm	1.1084	33.0 - 34.5 mm	20.3 ± 0.3	1.40 ± 0.03
L & M	F, M, SP	100 mm	1.1158	33.0 - 35.0 mm	19.0 ± 0.2	1.27 ± 0.02
Lark	F, SP	85 mm	1.0793	27.7 - 29.0 mm	17.8 ± 0.3	1.16 ± 0.02
Lark	F, SP	100 mm	1.2108	30.0 - 32.0 mm	19.1 ± 0.5	1.26 ± 0.03
Lucky Strike	NF, SP	70 mm	0.9212	23 mm	27.1 ± 0.5	1.59 ± 0.03
Lucky Ten	F, SP	85 mm	1.2174	33.0 - 35.5 mm	9.4 ± 0.2	0.63 ± 0.01
Lucky 100's	F, SP	100 mm	1.3200	37.5 - 39.5 mm	9.6 ± 0.2	0.71 ± 0.01
Mapleton	NF, SP	70 mm	1.0455	23 mm	29.5 ± 0.6	1.22 ± 0.03
Mapleton	F, SP	85 mm	1.1454	27.5 - 29.0 mm	23.7 ± 0.4	1.20 ± 0.04
Marlboro	F, HP	80 mm	0.9532	25.5 - 27.0 mm	17.2 ± 0.3	1.09 ± 0.02
Marlboro	F, M, HP	80 mm	0.9377	25.5 - 27.5 mm	13.4 ± 0.2	0.77 ± 0.02
Marlboro	F, SP	85 mm	0.9887	27.3 - 28.5 mm	17.4 ± 0.3	1.10 ± 0.02
Marlboro	F, M, SP	85 mm	0.9897	28.5 - 30.5 mm	14.1 ± 0.3	0.85 ± 0.02
Marlboro	F, HP	100 mm	1.1015	33.5 - 35.0 mm	17.0 ± 0.3	1.12 ± 0.03
Marlboro	F, SP	100 mm	1.1268	33.0 - 35.0 mm	17.5 ± 0.3	1.14 ± 0.03
Marlboro Lights	F, SP	85 mm	1.1160	33.0 - 34.0 mm	12.2 ± 0.3	0.82 ± 0.02
Marvells	NF, SP	85 mm	1.2253	23 mm	25.1 ± 0.6	0.92 ± 0.03
Marvells	F, SP	85 mm	1.1087	27.5 - 29.5 mm	5.7 ± 0.2	0.21 ± 0.01
Marvelu	F, M, SP	85 mm	1.1035	28.0 - 30.0 mm	4.5 ± 0.3	0.19 ± 0.01
Miyako	F, SP	85 mm	0.8796	27.0 - 28.5 mm	15.4 ± 0.3	0.93 ± 0.02
Montclair	F, M, SP	85 mm	1.0130	27.5 - 28.5 mm	18.6 ± 0.3	1.38 ± 0.02

- 1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; mm-millimeter
2 average weight reported in grams
3 range used for butt length because of variance of overwrap
4 TPM dry (tar) - milligrams total particulate matter less nicotine and water
5 milligrams total alkaloids reported as nicotine
6 limited availability based on reduced sampling from Washington, D. C. only
* tolerance shown is two (2) standard deviation of the mean

BRAND	TYPE ¹		AVERAGE WEIGHT ²	BUTT LENGTH ³	TPM dry ⁴ *	NICOTINE ⁵ *
More	F, SP	120 mm	1.0693	33.5 - 34.5 mm	17.3 ± 0.7	1.41 ± 0.05
More	F, M, SP	120 mm	1.0627	33.0 - 35.5 mm	17.9 ± 0.9	1.46 ± 0.06
Multifilter	F, SP	85 mm	1.1534	33.0 - 35.3 mm	12.3 ± 0.3	0.85 ± 0.02
Multifilter	F, M, SP	85 mm	1.1333	32.5 - 33.5 mm	10.5 ± 0.5	0.67 ± 0.04
Newport	F, M, HP	80 mm	0.9307	26.5 - 29.5 mm	17.4 ± 0.3	1.18 ± 0.02
Newport	F, M, SP	85 mm	0.9528	24.7 - 26.0 mm	17.1 ± 0.3	1.20 ± 0.02
Newport	F, M, SP	100 mm	1.1159	33.5 - 35.0 mm	21.3 ± 0.3	1.51 ± 0.02
Onais	F, M, SP	85 mm	0.9523	26.0 - 27.5 mm	17.8 ± 0.4	1.16 ± 0.03
Old Gold Straight	NF, SP	70 mm	0.8642	23 mm	19.6 ± 0.4	1.16 ± 0.02
Old Gold Straight	NF, SP	85 mm	1.0385	23 mm	24.4 ± 0.3	1.46 ± 0.04
Old Gold Filters	F, HP	80 mm	0.9063	26.0 - 28.0 mm	16.7 ± 0.3	1.24 ± 0.02
Old Gold Filters	F, SP	85 mm	0.9873	27.5 - 29.5 mm	17.9 ± 0.5	1.12 ± 0.03
Old Gold 100's	F, SP	100 mm	1.1445	33.0 - 35.5 mm	22.7 ± 0.4	1.44 ± 0.03
Pall Mall	NF, SP	85 mm	1.1042	23 mm	26.8 ± 0.6	1.67 ± 0.03
Pall Mall Extra Mild	F, HP	80 mm	1.1879	32.7 - 34.0 mm	9.3 ± 0.2	0.62 ± 0.01
Pall Mall Extra Mild	F, SP	85 mm	1.2340	32.0 - 33.5 mm	10.2 ± 0.2	0.67 ± 0.02
Pall Mall	F, SP	100 mm	1.1957	34.5 - 36.7 mm	20.3 ± 0.5	1.42 ± 0.05
Pall Mall	F, M, SP	100 mm	1.1405	33.5 - 36.0 mm	17.2 ± 0.2	1.34 ± 0.04
Parliament	F, HP	80 mm	0.9855	31.0 - 33.0 mm	14.2 ± 0.3	0.84 ± 0.02
Parliament	F, SP	85 mm	1.0424	31.8 - 33.5 mm	14.6 ± 0.2	0.85 ± 0.02
Parliament 100's	F, SP	100 mm	1.3196	38.8 - 40.0 mm	16.7 ± 0.3	1.05 ± 0.02
Philip Morris	NF, SP	70 mm	0.8985	23 mm	20.2 ± 0.5	1.12 ± 0.03
Philip Morris Commander	NF, SP	85 mm	1.0720	23 mm	25.3 ± 0.5	1.49 ± 0.04
Philip Morris International	F, HP	100 mm	1.1077	35.0 - 37.0 mm	16.9 ± 0.3	1.09 ± 0.02
Philip Morris International	F, M, HP	100 mm	1.0790	34.5 - 36.3 mm	17.1 ± 0.2	1.03 ± 0.01
Picayune	NF, SP	70 mm	0.8833	23 mm	19.9 ± 0.3	1.48 ± 0.03
Piedmont	NF, SP	70 mm	0.8740	23 mm	24.5 ± 0.4	1.45 ± 0.02
Players	NF, HP	70 mm	1.0879	23 mm	31.2 ± 0.6	2.08 ± 0.05
Raleigh	NF, SP	85 mm	1.0747	23 mm	24.1 ± 0.5	1.43 ± 0.03
Raleigh	F, SP	85 mm	1.0383	28.5 - 30.5 mm	15.7 ± 0.4	1.02 ± 0.03
Raleigh	F, SP	100 mm	1.1880	34.5 - 36.0 mm	17.2 ± 0.4	1.18 ± 0.03
Raleigh Extra Mild	F, SP	85 mm	1.0147	32.5 - 34.0 mm	14.1 ± 0.3	0.88 ± 0.02
St. Moritz	F, SP	100 mm	1.1237	35.0 - 37.0 mm	17.0 ± 0.3	1.13 ± 0.03
St. Moritz	F, M, SP	100 mm	1.1413	35.3 - 37.5 mm	18.3 ± 0.5	1.20 ± 0.04
Safari	F, SP	100 mm	1.2012	34.5 - 37.0 mm	19.4 ± 0.6	1.37 ± 0.04
Salem	F, M, HP	80 mm	0.9407	26.0 - 27.5 mm	18.5 ± 0.3	1.27 ± 0.02
Salem	F, M, SP	85 mm	0.8039	27.5 - 29.5 mm	18.7 ± 0.3	1.29 ± 0.03
Salem	F, M, SP	100 mm	1.1812	33.0 - 35.0 mm	18.8 ± 0.4	1.34 ± 0.02
Salem Extra	F, M, SP	85 mm	0.9830	28.0 - 29.0 mm	17.6 ± 0.2	1.33 ± 0.02
Sano	NF, SP	70 mm	1.0795	23 mm	22.5 ± 0.3	0.76 ± 0.01
Silva Thins	F, SP	100 mm	0.9253	32.5 - 34.0 mm	16.7 ± 0.3	1.19 ± 0.02
Silva Thins	F, M, SP	100 mm	1.0354	33.0 - 35.0 mm	16.4 ± 0.4	1.08 ± 0.03
Spring 100's	F, M, SP	100 mm	1.0984	32.5 - 33.5 mm	20.6 ± 0.3	1.16 ± 0.03
Super M	F, M, SP	100 mm	1.1584	32.0 - 33.5 mm	17.0 ± 0.3	1.18 ± 0.03
Tareyton	F, SP	85 mm	1.1302	26.3 - 28.0 mm	20.3 ± 0.4	1.32 ± 0.03
Tareyton	F, SP	100 mm	1.2691	34.5 - 36.0 mm	19.4 ± 0.4	1.34 ± 0.02
Tempo	F, SP	85 mm	1.0368	32.5 - 34.5 mm	11.2 ± 0.3	0.77 ± 0.02
Tramps	F, SP	85 mm	1.0766	28.0 - 30.0 mm	17.6 ± 0.3	1.14 ± 0.03
Tramps	F, M, SP	85 mm	1.0486	27.7 - 29.5 mm	16.3 ± 0.4	0.91 ± 0.02
True	F, SP	85 mm	0.9977	32.5 - 34.5 mm	11.3 ± 0.4	0.64 ± 0.02
True	F, M, SP	85 mm	1.0023	32.5 - 34.5 mm	11.7 ± 0.5	0.67 ± 0.02
True	F, SP	100 mm	1.1789	34.3 - 36.0 mm	12.7 ± 0.7	0.75 ± 0.03
True 7	F, M, SP	100 mm	1.1288	34.5 - 36.7 mm	13.2 ± 0.3	0.78 ± 0.02
Twist 7	F, L/M, SP	100 mm	1.1249	32.0 - 34.0 mm	16.7 ± 0.3	1.22 ± 0.03
Vantage	F, SP	85 mm	1.2098	32.0 - 34.0 mm	11.5 ± 0.4	0.76 ± 0.03
Vantage	F, M, SP	85 mm	1.1478	32.5 - 34.0 mm	11.4 ± 0.2	0.78 ± 0.02
Viceroy	F, SP	85 mm	1.0266	27.5 - 30.0 mm	15.7 ± 0.2	1.04 ± 0.02
Viceroy	F, SP	100 mm	1.1594	33.5 - 36.0 mm	17.0 ± 0.3	1.15 ± 0.02
Viceroy Extra Mild	F, SP	85 mm	0.9961	32.0 - 34.0 mm	13.8 ± 0.3	0.90 ± 0.01
Virginia Slims	F, SP	100 mm	0.8515	34.0 - 35.5 mm	16.7 ± 0.3	1.04 ± 0.02
Virginia Slims	F, M, SP	100 mm	0.9758	34.5 - 36.0 mm	17.0 ± 0.4	1.06 ± 0.02
Winchester	F, SP	85 mm	0.9864	27.7 - 28.5 mm	19.4 ± 0.5	1.34 ± 0.04
Winchester	F, M, SP	85 mm	0.9989	27.5 - 29.0 mm	17.0 ± 0.6	1.24 ± 0.03
Winston	F, HP	80 mm	0.9375	25.3 - 27.0 mm	19.3 ± 0.4	1.33 ± 0.03
Winston	F, SP	85 mm	0.9888	27.5 - 29.3 mm	19.8 ± 0.3	1.39 ± 0.03
Winston	F, SP	100 mm	1.1668	33.5 - 34.0 mm	19.0 ± 0.4	1.31 ± 0.02
Winston	F, M, SP	100 mm	1.1617	33.0 - 35.0 mm	19.1 ± 0.3	1.36 ± 0.02
Winston Lights	F, SP	85 mm	0.9451	32.5 - 33.5 mm	13.8 ± 0.2	0.97 ± 0.02

1 F-filter; NF-non-filter; M-menthol; HP-hard pack; SP-soft pack; mm-millimeter

2 average weight reported in grams

3 range used for butt length because of variance of overwrap

4 TPM dry (tar) - milligrams total particulate matter less nicotine and water

5 milligrams total alkaloids reported as nicotine

6 limited availability based on reduced sampling from Washington, D. C. only

7 L/M - lemon/menthol

* tolerance shown is two (2) standard deviation of the mean

Tar¹ and Nicotine Content of One-hundred thirty-six (136)
Varieties of Domestic Cigarettes
(shown in increasing order of tar values)

BRAND	TYPE	Tar (mg/cig)	Nicotine (mg/cig)
Carlton 70's ²	reg. size, filter	2	0.2
Carlton	king size, filter, menthol	4	0.3
Carlton	king size, filter	4	0.3
Marvels	king size, filter, menthol	4	0.2
Marvels	king size, filter	6	0.2
King Sano	king size, filter, menthol	7	0.3
King Sano	king size, filter	8	0.3
Iceberg 100's	100 mm, filter, menthol	9	0.6
Benson & Hedges	reg. size, filter, (hard pack)	9	0.5
Pall Mall Extra Mild	king size, filter, (hard pack)	9	0.6
Lucky Ten	king size, filter	9	0.6
Lucky 100's	100 mm, filter	10	0.7
Pall Mall Extra Mild	king size, filter	10	0.7
Multifilter	king size, filter, menthol	10	0.7
Tempo	king size, filter	11	0.8
True	king size, filter	11	0.6
Vantage	king size, filter, menthol	11	0.8
Vantage	king size, filter	12	0.8
True	king size, filter, menthol	12	0.7
Marlboro Lights	king size, filter	12	0.8
Multifilter	king size, filter	12	0.8
True	100 mm, filter	13	0.7
Doral	king size, filter, menthol	13	0.9
True	100 mm, filter, menthol	13	0.8
Kool Milds	king size, filter, menthol	13	0.8
Marlboro	king size, filter, menthol, (hard pack)	13	0.8
Alpine	king size, filter, menthol	13	0.8
Winston Lights	king size, filter	14	1.0
Viceroy Extra Mild	king size, filter	14	0.9
Raleigh Extra Mild	king size, filter	14	0.9
Marlboro	king size, filter, menthol	14	0.8
Parliament	king size, filter, (hard pack)	14	0.8
Doral	king size, filter	15	1.0
Parliament	king size, filter	15	0.8
Belair	king size, filter, menthol	15	1.0
Galaxy	king size, filter	15	1.0
DuMaurier	king size, filter, (hard pack)	15	1.0
Kent	king size, filter, (hard pack)	15	0.9
Miyako	king size, filter	15	0.9
Raleigh	king size, filter	16	1.0
Viceroy	king size, filter	16	1.0
Benson & Hedges	king size, filter, (hard pack)	16	1.1
Kool	king size, filter, menthol, (hard pack)	16	1.2
Kent	king size, filter	16	1.0
Alpine	100 mm, filter, menthol, (hard pack)	16	0.9
Kool	king size, filter, menthol	16	1.2
Trumps	king size, filter, menthol	16	0.9
Silva Thins	100 mm, filter, menthol	16	1.1
Parliament 100's	100 mm, filter	17	1.0
Virginia Slims	100 mm, filter	17	1.0
Silva Thins	100 mm, filter	17	1.2
Old Gold Filters	king size, filter, (hard pack)	17	1.2
Twist	100 mm, filter, (hard pack)	17	1.2
Benson & Hedges 100's	100 mm, filter, menthol	17	1.1
Belair	100 mm, filter, menthol	17	1.2
Philip Morris International	100 mm, filter, (hard pack)	17	1.1
Benson & Hedges 100's	100 mm, filter	17	1.1
Winchester	king size, filter, menthol	17	1.2
Super M	100 mm, filter, menthol	17	1.2
Marlboro	100 mm, filter, (hard pack)	17	1.1
Virginia Slims	100 mm, filter, menthol	17	1.1
St. Moritz	100 mm, filter	17	1.1
Viceroy	100 mm, filter	17	1.1
Newport	king size, filter, menthol	17	1.2
Philip Morris International	100 mm, filter, menthol, (hard pack)	17	1.0
Kool	100 mm, filter, menthol	17	1.2
Marlboro	king size, filter, (hard pack)	17	1.1
Pall Mall	100 mm, filter, menthol	17	1.3

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2 limited availability based on reduced sampling from Washington, D. C. only

Tar¹ and Nicotine Content of One-hundred thirty-six (136)
Varieties of Domestic Cigarettes
(shown in increasing order of tar values)

BRAND	TYPE	Tar (mg/cig)	Nicotine (mg/cig)
Raleigh	100 mm, filter	17	1.2
More	120 mm, filter	17	1.4
Newport	king size, filter, menthol, (hard pack)	17	1.2
Marlboro	king size, filter	17	1.1
Marlboro	100 mm, filter	18	1.1
Salem Extra	king size, filter, menthol	18	1.3
Tramps	king size, filter	18	1.1
L & M	king size, filter, (hard pack)	18	1.2
Lark	king size, filter	18	1.2
Oasis	king size, filter, menthol	18	1.2
More	120 mm, filter, menthol	18	1.5
Old Gold Filters	king size, filter	18	1.1
Kent	100 mm, filter, menthol	18	1.2
Chesterfield	king size, filter	18	1.2
L & M	king size, filter	18	1.2
St. Moritz	100 mm, filter, menthol	18	1.2
Chesterfield	king size, filter, menthol	19	1.2
Salem	king size, filter, menthol, (hard pack)	19	1.3
Kent	100 mm, filter	19	1.2
Montclair	king size, filter, menthol	19	1.4
Salem	king size, filter, menthol	19	1.3
Eve	100 mm, filter, menthol	19	1.2
Salem	100 mm, filter, menthol	19	1.3
Eve	100 mm, filter	19	1.3
Winston	100 mm, filter	19	1.3
L & M	100 mm, filter, menthol	19	1.3
Winston	100 mm, filter, menthol	19	1.4
Lark	100 mm, filter	19	1.3
Kool	reg. size, non-filter, menthol	19	1.2
Winston	king size, filter, (hard pack)	19	1.3
Safari	100 mm, filter	19	1.4
Camel Filters	king size, filter	19	1.3
Winchester	king size, filter	19	1.3
Tareyton	100 mm, filter	19	1.3
Old Gold Straights	reg. size, non-filter	20	1.2
Chesterfield	101 mm, filter	20	1.3
Winston	king size, filter	20	1.4
Vicayune	reg. size, non-filter	20	1.5
Philip Morris	reg. size, non-filter	20	1.1
Pall Mall	100 mm, filter	20	1.4
Tareyton	king size, filter	20	1.3
L & M	100 mm, filter	20	1.4
Spring 100's	100 mm, filter, menthol	21	1.2
Home Run	reg. size, non-filter	21	1.6
Newport	100 mm, filter, menthol	21	1.5
English Ovals	reg. size, non-filter, (hard pack)	22	1.5
Sano	reg. size, non-filter	22	0.8
Domino	king size, filter	23	1.2
Old Gold 100's	100 mm, filter	23	1.4
Mapleton	king size, filter	24	1.2
Chesterfield	reg. size, non-filter	24	1.4
Raleigh	king size, non-filter	24	1.4
Old Gold Straights	king size, non-filter	24	1.5
Piedmont	reg. size, non-filter	25	1.5
Camel	reg. size, non-filter	25	1.6
Half & Half	king size, filter	25	1.8
Marvels	king size, non-filter	25	0.9
Philip Morris Commander	king size, non-filter	25	1.5
Domino	king size, non-filter	26	1.3
Pall Mall	king size, non-filter	27	1.7
Lucky Strike	reg. size, non-filter	27	1.6
Fatima	king size, non-filter	28	1.6
Rull Durham	king size, filter	28	1.8
Chesterfield	king size, non-filter	29	1.7
English Ovals	king size, non-filter, (hard pack)	29	2.2
Herbert Tareyton	king size, non-filter	29	1.8
Mapleton	reg. size, non-filter	30	1.2
Players	reg. size, non-filter, (hard pack)	31	2.1

1 TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059320

Tar¹ and Nicotine Content of One-hundred thirty-six (136)
Varieties of Domestic Cigarettes
(shown in increasing order of nicotine values)

BRAND	TYPE	Tar (mg/cig)	Nicotine (mg/cig)
Carlton 70's ²	reg. size, filter	2	0.2
Marvells	king size, filter, menthol	4	0.2
Marvells	king size, filter	6	0.2
King Sano	king size, filter, menthol	7	0.3
Carlton	king size, filter	4	0.3
King Sano	king size, filter	8	0.3
Carlton	king size, filter, menthol	4	0.3
Benson & Hedges	reg. size, filter, (hard pack)	9	0.5
Iceberg 100's	100 mm, filter, menthol	9	0.6
Pall Mall Extra Mild	king size, filter, (hard pack)	9	0.6
Lucky Ten	king size, filter	9	0.6
True	king size, filter	11	0.6
True	king size, filter, menthol	12	0.7
Multifilter	king size, filter, menthol	10	0.7
Pall Mall Extra Mild	king size, filter	10	0.7
Lucky 100's	100 mm, filter	10	0.7
True	100 mm, filter	13	0.7
Sano	reg. size, non-filter	22	0.8
Vantage	king size, filter	12	0.8
Tempo	king size, filter	11	0.8
Marlboro	king size, filter, menthol, (hard pack)	13	0.8
True	100 mm, filter, menthol	13	0.8
Vantage	king size, filter, menthol	11	0.8
Kool Milds	king size, filter, menthol	13	0.8
Marlboro Lights	king size, filter	12	0.8
Alpine	king size, filter, menthol	13	0.8
Parliament	king size, filter, (hard pack)	14	0.8
Marlboro	king size, filter, menthol	14	0.8
Parliament	king size, filter	15	0.8
Multifilter	king size, filter	12	0.8
Raleigh Extra Mild	king size, filter	14	0.9
Viceroy Extra Mild	king size, filter	14	0.9
Kent	king size, filter, (hard pack)	15	0.9
Tramps	king size, filter, menthol	16	0.9
Marvells	king size, non-filter	25	0.9
Alpine	100 mm, filter, menthol, (hard pack)	16	0.9
Miyako	king size, filter	15	0.9
Doral	king size, filter, menthol	13	0.9
Winston Lights	king size, filter	14	1.0
Kent	king size, filter	16	1.0
Galaxy	king size, filter	15	1.0
DeMaurier	king size, filter, (hard pack)	15	1.0
Raleigh	king size, filter	16	1.0
Philip Morris International	100 mm, filter, menthol, (hard pack)	17	1.0
Doral	king size, filter	15	1.0
Viceroy	king size, filter	16	1.0
Virginia Slims	100 mm, filter	17	1.0
Parliament 100's	100 mm, filter	17	1.0
Bulair	king size, filter, menthol	15	1.0
Virginia Slims	100 mm, filter, menthol	17	1.1
Silva Thins	100 mm, filter, menthol	16	1.1
Benson & Hedges 100's	100 mm, filter	17	1.1
Marlboro	king size, filter, (hard pack)	17	1.1
Philip Morris International	100 mm, filter, (hard pack)	17	1.1
Marlboro	king size, filter	17	1.1
Benson & Hedges 100's	100 mm, filter, menthol	17	1.1
Marlboro	100 mm, filter, (hard pack)	17	1.1
Benson & Hedges	king size, filter, (hard pack)	16	1.1
Old Gold Filters	king size, filter	18	1.1
Philip Morris	reg. size, non-filter	20	1.1
St. Moritz	100 mm, filter	17	1.1
Marlboro	100 mm, filter	18	1.1
Tramps	king size, filter	18	1.1
Viceroy	100 mm, filter	17	1.1
Chesterfield	king size, filter, menthol	19	1.2
Lark	king size, filter	18	1.2
Old Gold Straights	reg. size, non-filter	20	1.2
Spring 100's	100 mm, filter, menthol	21	1.2

1 TPM dry (tar) = milligrams total particulate matter less nicotine and water

2 limited availability based on reduced sampling from Washington, D. C. only

Tar¹ and Nicotine Content of One-hundred thirty-six (136)
Varieties of Domestic Cigarettes
(shown in increasing order of nicotine values)

BRAND	TYPE	Tar (mg/cig)	Nicotine (mg/cig)
L & M	king size, filter, (hard pack)	18	1.2
Onsis	king size, filter, menthol	18	1.2
Kool	reg. size, non-filter, menthol	19	1.2
Kent	100 mm, filter, menthol	18	1.2
Newport	king size, filter, menthol, (hard pack)	17	1.2
Super M	100 mm, filter, menthol	17	1.2
Domino	king size, filter	23	1.2
Raleigh	100 mm, filter	17	1.2
Kent	100 mm, filter	19	1.2
Silva Thins	100 mm, filter	17	1.2
Belair	100 mm, filter, menthol	17	1.2
Newport	king size, filter, menthol	17	1.2
L & M	king size, filter	18	1.2
Mapleton	king size, filter	24	1.2
St. Moritz	100 mm, filter, menthol	18	1.2
Eve	100 mm, filter, menthol	19	1.2
Mapleton	reg. size, non-filter	30	1.2
Kool	king size, filter, menthol, (hard pack)	16	1.2
Kool	100 mm, filter, menthol	17	1.2
Twist	100 mm, filter, lemon/menthol	17	1.2
Chesterfield	king size, filter	18	1.2
Winchester	king size, filter, menthol	17	1.2
Old Gold Filters	king size, filter, (hard pack)	17	1.2
Kool	king size, filter, menthol	16	1.2
Lark	100 mm, filter	19	1.3
L & M	100 mm, filter, menthol	19	1.3
Salem	king size, filter, menthol, (hard pack)	19	1.3
Domino	king size, non-filter	26	1.3
Eve	100 mm, filter	19	1.3
Salem	king size, filter, menthol	19	1.3
Winston	100 mm, filter	19	1.3
Camel Filters	king size, filter	19	1.3
Tareyton	king size, filter	20	1.3
Winston	king size, filter, (hard pack)	19	1.3
Salem Extra	king size, filter, menthol	18	1.3
Chesterfield	101 mm, filter	20	1.3
Tareyton	100 mm, filter	19	1.3
Salem	100 mm, filter, menthol	19	1.3
Winchester	king size, filter	19	1.3
Pall Mall	100 mm, filter, menthol	17	1.3
Winston	100 mm, filter, menthol	19	1.4
Safari	100 mm, filter	19	1.4
Chesterfield	reg. size, non-filter	24	1.4
Montclair	king size, filter, menthol	19	1.4
Winston	king size, filter	20	1.4
L & M	100 mm, filter	20	1.4
More	120 mm, filter	17	1.4
Pall Mall	100 mm, filter	20	1.4
Raleigh	king size, non-filter	24	1.4
Old Gold 100's	100 mm, filter	23	1.4
Piedmont	reg. size, non-filter	25	1.5
Old Gold Straights	king size, non-filter	24	1.5
More	120 mm, filter, menthol	18	1.5
Picayune	reg. size, non-filter	20	1.5
Philip Morris Commander	king size, non-filter	25	1.5
Newport	100 mm, filter, menthol	21	1.5
English Ovals	reg. size, non-filter, (hard pack)	22	1.5
Lucky Strike	reg. size, non-filter	27	1.6
Home Run	reg. size, non-filter	21	1.6
Camel	reg. size, non-filter	25	1.6
Fatima	king size, non-filter	23	1.6
Pall Mall	king size, non-filter	27	1.7
Chesterfield	king size, non-filter	29	1.7
Bull Durham	king size, filter	28	1.8
Herbert Tareyton	king size, non-filter	29	1.8
Half & Half	king size, filter	25	1.8
Players	reg. size, non-filter, (hard pack)	31	2.1
English Ovals	king size, non-filter, (hard pack)	29	2.2

¹ TPM dry (tar) - milligrams total particulate matter less nicotine and water

PM3001059322

Listing of "Tar"¹ Values for Five (5) Testing Periods

BRAND	TYPE	Jan. 1973	Aug. 1973	Mar. 1974	Sept. 1974	Mar. 1975
Adair (white)* ¹	king size, filter	19	*	*	*	*
Adair (brown)* ¹	king size, filter	19	19	*	*	*
Adair (brown)* ¹	100 mm, filter	*	19	*	*	*
Alpine	king size, filter, menthol	15	15	14	13	13
Alpine	100 mm, filter, menthol, (hard pack)	*	*	15	14	16
Belair	king size, filter, menthol	16	15	15	16	15
Belair	100 mm, filter, menthol	18	18	17	17	17
Benson & Hedges	reg. size, filter, (hard pack)	10	10	9	9	9
Benson & Hedges	king size, filter, (hard pack)	17	16	15	16	16
Benson & Hedges 100's	100 mm, filter	18	18	18	17	17
Benson & Hedges 100's	100 mm, filter, menthol	18	18	18	17	17
Ball Durham	king size, filter	29	29	30	30	23
Camel	reg. size, non-filter	25	25	23	25	25
Camel Filters	king size, filter	20	19	19	19	19
Carlton 70's	reg. size, filter	1	2	1	2	2
Carlton	king size, filter	3	4	4	4	4
Carlton	king size, filter, menthol	3	3	3	4	4
Chesterfield	reg. size, non-filter	25	26	25	24	24
Chesterfield	king size, non-filter	29	28	29	29	29
Chesterfield	king size, filter	18	19	19	19	18
Chesterfield	king size, filter, menthol	18	19	18	18	19
Chesterfield	101 mm, filter	19	19	19	20	20
Domino	king size, non-filter	27	29	26	27	26
Domino	king size, filter	22	21	21	20	23
Doral	king size, filter	15	16	14	14	15
Doral	king size, filter, menthol	15	14	14	14	13
DuMaurier	king size, filter, (hard pack)	16	16	16	16	15
Edgeworth Export	king size, filter, (hard pack)	19	19	22	22	*
Edgeworth Export	100 mm, filter	19	19	20	21	*
English Ovals	reg. size, non-filter, (hard pack)	23	23	23	22	22
English Ovals	king size, non-filter, (hard pack)	30	28	29	28	29
Eye	100 mm, filter	17	18	18	18	19
Eye	100 mm, filter, menthol	17	18	17	17	19
Fatima	king size, non-filter	32	31	28	28	28
Frappe	king size, filter, menthol	9	9	11	9	*
Galaxy	king size, filter	19	18	18	15	15
Half & Half	king size, filter	24	24	25	25	25
Herbert Tareyton	king size, non-filter	29	31	30	30	29
Homo Run	reg. size, non-filter	20	21	19	20	21
Iceberg 10	king size, filter, menthol	9	9	9	9	*
Iceberg 100's	100 mm, filter, menthol	*	*	*	8	9
Kent	reg. size, filter	9	*	*	*	*
Kent	king size, filter, (hard pack)	16	16	15	15	15
Kent	king size, filter	17	16	16	16	16
Kent	king size, filter, menthol	19	*	*	*	*
Kent	100 mm, filter	19	19	18	18	19
Kent	100 mm, filter, menthol	18	18	18	18	18
King Sano	king size, filter	6	6	6	7	8
King Sano	king size, filter, menthol	7	7	7	7	7
Keol	reg. size, non-filter, menthol	22	21	20	21	19
Keol	king size, filter, menthol, (hardpack)	*	*	*	*	16
Keol	king size, filter, menthol	17	16	17	17	16
Keol Milda	king size, filter, menthol	*	13	13	14	13
Keol	100 mm, filter, menthol	17	17	17	17	17
L & M	king size, filter, (hard pack)	17	17	18	17	18
L & M	king size, filter	19	19	19	18	18
L & M	100 mm, filter	19	19	19	20	20
L & M	100 mm, filter, menthol	19	19	19	19	19
Lark	king size, filter	17	17	17	17	18
Lark	100 mm, filter	18	18	19	19	19
Life	100 mm, filter	10	10	12	12	*
Lucky Strike	reg. size, non-filter	29	29	28	27	27
Lucky Filters	100 mm, filter	22	22	23	21	*
Lucky Ten	king size, filter	9	9	9	10	9
Lucky Ten	100 mm, filter	*	*	10	*	*
Lucky 100's	100 mm, filter	*	*	*	10	10
Luke	king size, filter	*	*	*	17	*
Lyme	king size, filter, lime/menthol	14	*	*	*	*
Mapleton	reg. size, non-filter	*	28	*	30	30
Mapleton	king size, filter	24	24	23	23	24
Marlboro	king size, filter, (hard pack)	18	18	17	17	17
Marlboro	king size, filter, menthol, (hardpack)	*	*	*	*	13
Marlboro	king size, filter	48	18	18	16	17
Marlboro	king size, filter, menthol	15	14	14	13	14
Marlboro	100 mm, filter, (hard pack)	18	18	17	16	17
Marlboro	100 mm, filter	18	18	18	17	19
Marlboro Lights	king size, filter	14	14	13	12	12
Marvels	reg. size, non-filter	21	*	*	18	*
Marvels	reg. size, filter	3	3	*	*	*
Marvels	king size, non-filter	25	25	24	30	25
Marvels	king size, filter	5	5	6	5	6
Marvels	king size, filter, menthol	5	5	4	4	4
Miyako	king size, filter	*	*	*	*	15
Navarick	king size, filter	20	*	*	*	*

* Denotes varieties not available during market sampling

¹ Indicates color of paper

1 TPN dry (tar) = milligrams total particulate matter less nicotine and water

PM3001059323

Listing of "Tar" Values for Five (5) Testing Periods

BRAND	TYPE	Jan., 1973	Aug., 1973	Mar., 1974	Sept., 1974	Mar., 1975
Mermaid	100 mm, filter, menthol	19	19	*	*	*
Montclair	king size, filter, menthol	19	18	19	19	19
More	120 mm, filter	*	*	*	*	17
More	120 mm, filter, menthol	*	*	*	*	18
Multifilter	king size, filter	14	14	13	12	12
Multifilter	king size, filter, menthol	11	12	12	12	10
Newport	king size, filter, menthol, (hard pack)	19	19	18	18	17
Newport	king size, filter, menthol	19	18	17	16	17
Newport ₂	100 mm, filter, menthol	21	22	21	20	21
Newport ₂	king size, filter, menthol, (hard pack)	20	*	*	*	*
Newport ₂	king size, filter, menthol	20	*	*	*	*
Newport ₂	100 mm, filter, menthol	23	*	*	*	*
Osage	king size, filter, menthol	18	19	19	18	18
Old Gold Straights	reg. size, non-filter	21	21	20	21	20
Old Gold Straights	king size, non-filter	26	26	24	24	24
Old Gold Filters	king size, filter, (hard pack)	*	*	*	*	17
Old Gold Filters	king size, filter	20	19	17	18	18
Old Gold 100's	100 mm, filter	23	22	22	21	23
Pall Mall	king size, non-filter	27	29	28	27	27
Pall Mall Extra Mild	king size, filter, (hard pack)	10	9	10	10	9
Pall Mall Extra Mild	king size, filter	*	10	10	10	10
Pall Mall	king size, filter	20	*	*	*	*
Pall Mall	100 mm, filter	20	20	21	19	20
Pall Mall	100 mm, filter, menthol	17	17	17	17	17
Parliament	king size, filter, (hard pack)	15	15	15	14	14
Parliament	king size, filter	15	15	15	14	15
Parliament 100's	100 mm, filter	19	17	18	17	17
Parliament	king size, charcoal filter, (hard pack)	16	16	16	*	*
Parliament	king size, charcoal filter	16	15	16	*	*
Peter Stuyvesant	king size, filter	20	20	19	20	*
Peter Stuyvesant	100 mm, filter	19	19	20	22	*
Philip Morris	reg. size, non-filter	23	23	22	22	20
Philip Morris Commander	king size, non-filter	29	29	27	26	25
Philip Morris International	100 mm, filter, (hard pack)	*	*	*	*	17
Philip Morris International	100 mm, filter, menthol, (hard pack)	*	*	*	*	17
Picayune	reg. size, non-filter	19	20	20	20	20
Piedmont	reg. size, non-filter	25	25	25	24	25
Players	reg. size, non-filter, (hard pack)	34	32	31	31	31
Raleigh	king size, non-filter	25	25	24	24	24
Raleigh	king size, filter	16	16	16	15	16
Raleigh	100 mm, filter	18	18	17	17	17
Raleigh Extra Mild	king size, filter	*	*	13	14	14
Redford	king size, filter	*	*	17	*	*
St. Moritz	100 mm, filter	20	20	19	19	17
St. Moritz	100 mm, filter, menthol	19	20	18	20	18
Safari	100 mm, filter	*	*	*	20	19
Salem	king size, filter, menthol, (hard pack)	*	*	*	*	19
Salem	king size, filter, menthol	19	19	18	18	19
Salem	100 mm, filter, menthol	21	19	20	19	19
Salem Extra	king size, filter, menthol	*	*	*	*	18
Sano	reg. size, non-filter	19	16	16	16	22
Sano	reg. size, filter	3	4	*	*	*
Silva Thins	100 mm, filter	15	16	17	16	17
Silva Thins	100 mm, filter, menthol	15	16	16	16	16
Spring 100's	100 mm, filter, menthol	20	20	20	19	21
Stratford	king size, non-filter	*	33	*	*	*
Stratford	king size, filter	*	20	*	*	*
Super M	100 mm, filter, menthol	*	*	*	*	17
Tareyton	king size, filter	19	21	21	20	20
Tareyton	100 mm, filter	20	21	21	19	19
Tempo	king size, filter	11	13	12	11	11
Tempo	king size, filter	*	*	*	*	18
Tempo	king size, filter, menthol	*	*	*	*	16
True	king size, filter	12	12	11	11	11
True	king size, filter, menthol	12	11	12	12	12
True	100 mm, filter	*	*	*	*	13
True	100 mm, filter, menthol	*	*	*	*	13
Twist	100 mm, filter, lemon/menthol	*	*	17	17	17
Vantage	king size, filter	11	10	11	11	12
Vantage	king size, filter, menthol	11	11	11	11	11
Viceroy	king size, filter	17	15	16	16	16
Viceroy	100 mm, filter	18	17	17	17	17
Viceroy Extra Mild	king size, filter	*	*	13	15	14
Virginia Slims	100 mm, filter	17	17	16	16	17
Virginia Slims	100 mm, filter, menthol	17	17	17	15	17
Vogue (black)	king size, filter, (hard pack)	29	30	31	30	*
Vogue (colored)	king size, filter, (hard pack)	20	22	22	22	*
Winchester	king size, filter	*	*	*	*	19
Winchester	king size, filter, menthol	*	*	*	*	17
Winston	king size, filter, (hard pack)	20	20	20	20	19
Winston	king size, filter	20	20	19	19	20
Winston	100 mm, filter	20	20	19	19	19
Winston	100 mm, filter, menthol	20	20	20	19	19
Winston Lights	king size, filter	*	*	*	*	14

* denotes varieties not available during market sampling

1 100 mg dry (tar) - milligrams total particulate matter less nicotine and water

2 Test market cigarette with white overwrap

Listing of Nicotine Values for Five (5) Testing Periods

Brand	Type	Jan. 1973	Aug. 1973	Mar. 1974	Sept. 1974	Mar. 1975
Adair (white) ^{a1}	king size, filter	1.3	*	*	*	*
Adair (brown) ^{a1}	king size, filter	1.2	1.4	*	*	*
Adair (brown)	100 mm, filter	*	1.5	*	*	*
Alpine	king size, filter, menthol	1.0	1.0	0.9	0.9	0.8
Alpine	100 mm, filter, menthol, (hard pack)	*	*	0.9	0.9	0.9
Belair	king size, filter, menthol	1.2	1.2	1.1	1.1	1.0
Belair	100 mm, filter, menthol	1.3	1.4	1.2	1.2	1.2
Benson & Hedges	reg. size, filter, (hard pack)	0.7	0.7	0.6	0.6	0.5
Benson & Hedges	king size, filter, (hard pack)	1.3	1.2	1.1	1.1	1.1
Benson & Hedges 100's	100 mm, filter	1.3	1.3	1.2	1.1	1.1
Benson & Hedges 100's	100 mm, filter, menthol	1.3	1.3	1.2	1.1	1.1
Bull Durham	king size, filter	1.8	2.0	2.0	2.0	1.8
Camel	reg. size, non-filter	1.6	1.6	1.5	1.6	1.6
Camel Filters	king size, filter	1.3	1.3	1.3	1.3	1.3
Carlton 70's	reg. size, filter	0.1	0.2	0.1	0.2	0.2
Carlton	king size, filter	0.3	0.4	0.3	0.3	0.3
Carlton	king size, filter, menthol	0.3	0.3	0.3	0.3	0.3
Chesterfield	reg. size, non-filter	1.5	1.6	1.5	1.5	1.4
Chesterfield	king size, non-filter	1.8	1.8	1.8	1.8	1.7
Chesterfield	king size, filter	1.3	1.4	1.4	1.3	1.2
Chesterfield	king size, filter, menthol	1.2	1.3	1.3	1.2	1.2
Chesterfield	101 mm, filter	1.5	1.5	1.4	1.4	1.3
Chesterfield	king size, non-filter	1.5	1.6	1.3	1.3	1.3
Chesterfield	king size, filter	1.3	1.3	1.2	1.2	1.2
Coral	king size, filter	1.0	1.1	1.0	1.0	1.0
Coral	king size, filter, menthol	1.1	1.1	1.0	1.0	0.9
Coral	king size, filter, (hard pack)	1.2	1.2	1.1	1.1	1.0
Edgeworth Export	king size, filter, (hard pack)	1.3	1.4	1.7	1.6	*
Edgeworth Export	100 mm, filter	1.4	1.4	1.4	1.4	*
Edgeworth Export	reg. size, non-filter, (hard pack)	1.8	1.7	1.7	1.5	1.5
English Ovals	king size, non-filter, (hard pack)	2.3	2.1	2.1	2.1	2.2
English Ovals	100 mm, filter	1.3	1.4	1.3	1.3	1.3
Eve	100 mm, filter	1.2	1.3	1.2	1.2	1.2
Eve	100 mm, filter, menthol	1.2	1.3	1.2	1.2	1.2
Fatima	king size, non-filter	1.9	1.9	1.8	1.7	1.6
Frappe	king size, filter, menthol	0.4	0.3	0.5	0.3	*
Galaxy	king size, filter	1.4	1.3	1.2	1.1	1.0
Half & Half	king size, filter	1.7	1.8	1.8	1.8	1.8
Herbert Turreyton	king size, non-filter	1.8	1.8	1.8	1.9	1.8
Hunt Run	reg. size, non-filter	1.5	1.6	1.6	1.5	1.6
Iceberg 10	king size, filter, menthol	0.6	0.6	0.6	0.6	*
Iceberg 100's	100 mm, filter, menthol	*	*	*	0.6	0.6
Iceberg	reg. size, filter	0.6	*	*	*	*
Kent	king size, filter, (hard pack)	1.0	1.0	0.9	0.9	0.9
Kent	king size, filter	1.1	1.0	1.0	1.0	1.0
Kent	king size, filter, menthol	1.2	*	*	*	*
Kent	100 mm, filter	1.3	1.2	1.2	1.2	1.2
Kent	100 mm, filter, menthol	1.2	1.3	1.2	1.2	1.2
King Sam	king size, filter	0.3	0.3	0.3	0.3	0.3
King Sam	king size, filter, menthol	0.3	0.3	0.3	0.3	0.3
Kool	reg. size, non-filter, menthol	1.4	1.4	1.2	1.3	1.2
Kool	king size, filter, menthol, (hard pack)	*	*	*	*	1.2
Kool	king size, filter, menthol	1.4	1.3	1.3	1.3	1.2
Kool Milds	king size, filter, menthol	*	1.0	0.9	0.9	0.8
Kool	100 mm, filter, menthol	1.3	1.3	1.2	1.3	1.2
1 & M	king size, filter, (hard pack)	1.2	1.3	1.3	1.2	1.2
1 & M	king size, filter	1.4	1.4	1.3	1.2	1.2
1 & M	100 mm, filter	1.5	1.5	1.4	1.4	1.4
1 & M	100 mm, filter, menthol	1.3	1.4	1.3	1.3	1.3
Lark	king size, filter	1.2	1.2	1.2	1.2	1.2
Lark	100 mm, filter	1.3	1.3	1.3	1.3	1.3
Lark	100 mm, filter	0.6	0.6	0.8	0.8	*
Lucky Strike	reg. size, non-filter	1.6	1.8	1.7	1.7	1.6
Lucky Strike	100 mm, filter	1.6	1.6	1.7	1.6	*
Lucky Ten	king size, filter	0.7	0.6	0.7	0.7	0.6
Lucky Ten	100 mm, filter	*	*	0.8	*	*
Lucky 100's	100 mm, filter	*	*	*	0.8	0.7
Luke	king size, filter	*	*	*	1.2	*
Luke	king size, filter, lime/menthol	1.0	*	*	*	*
Mapleton	reg. size, non-filter	*	1.2	*	1.3	1.2
Mapleton	king size, filter	1.3	1.3	1.3	1.2	1.2
Marlboro	king size, filter, (hard pack)	1.3	1.2	1.1	1.1	1.1
Marlboro	king size, filter, menthol, (hard pack)	*	*	*	*	0.8
Marlboro	king size, filter	1.3	1.2	1.2	1.1	1.1
Marlboro	king size, filter, menthol	1.0	1.0	0.9	0.9	0.8
Marlboro	100 mm, filter, (hard pack)	1.4	1.3	1.2	1.1	1.1
Marlboro	100 mm, filter	1.3	1.3	1.2	1.1	1.1
Marlboro Lights	king size, filter	1.1	1.0	0.9	0.9	0.8
Marvella	reg. size, non-filter	0.8	*	*	0.6	*
Marvella	reg. size, filter	0.2	0.2	*	*	*
Marvella	king size, non-filter	1.0	1.0	0.9	1.1	0.9
Marvella	king size, filter	0.3	0.3	0.2	0.2	0.2
Marvella	king size, filter, menthol	0.2	0.2	0.2	0.2	0.2
Miyako	king size, filter	*	*	*	*	0.9
Maverick	king size, filter	1.6	*	*	*	*

* Denotes varieties not available during market sampling

^{a1} Indicate color of cigarette paper

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Listing of Nicotine Values for Five (5) Trading Periods

BRAND	TYPE	Jun. 1973	Aug. 1973	Nov. 1974	Sept. 1974	Mar. 1975
Meinland	100 mm, filter, menthol	1.4	1.4	*	*	*
Montclair	king size, filter, menthol	1.4	1.3	1.4	1.5	1.4
Nore	120 mm, filter	*	*	*	*	1.4
Nore	120 mm, filter, menthol	*	*	*	*	1.5
Multifilter	king size, filter	1.1	1.0	0.9	0.9	0.8
Multifilter	king size, filter, menthol	0.9	0.9	0.9	0.8	0.7
Newport	king size, filter, menthol, (hard pack)	1.2	1.3	1.2	1.7	1.2
Newport	king size, filter, menthol	1.3	1.3	1.2	1.2	1.2
Newport	100 mm, filter, menthol	1.4	1.6	1.5	1.5	1.5
Newport	king size, filter, menthol, (hard pack)	1.5	*	*	*	*
Newport	king size, filter, menthol	1.4	*	*	*	*
Newport	100 mm, filter, menthol	1.7	*	*	*	*
Osaka	king size, filter, menthol	1.2	1.3	1.3	1.3	1.2
Old Gold Straights	reg. size, non-filter	1.2	1.3	1.3	1.2	1.2
Old Gold Straights	king size, non-filter	1.6	1.6	1.5	1.5	1.5
Old Gold Filters	king size, filter, (hard pack)	*	*	*	*	1.2
Old Gold Filters	king size, filter	1.3	1.2	1.1	1.1	1.1
Old Gold 100's	100 mm, filter	1.5	1.5	1.4	1.4	1.4
Pall Mall	king size, non-filter	1.8	1.9	1.8	1.7	1.7
Pall Mall Extra Mild	king size, filter, (hard pack)	0.7	0.6	0.7	0.7	0.6
Pall Mall Extra Mild	king size, filter	*	0.7	0.7	0.7	0.7
Pall Mall	king size, filter	1.3	*	*	*	*
Pall Mall	100 mm, filter	1.4	1.4	1.5	1.4	1.4
Pall Mall	100 mm, filter, menthol	1.3	1.3	1.3	1.3	1.3
Parliament	king size, filter, (hard pack)	1.0	1.0	0.9	0.9	0.8
Parliament	king size, filter	1.0	1.0	0.9	0.8	0.8
Parliament 100's	100 mm, filter	1.3	1.2	1.2	1.1	1.0
Parliament	king size, charcoal filter, (hard pack)	1.1	1.0	1.0	*	*
Parliament	king size, charcoal filter	1.1	1.0	1.0	*	*
Peter Stuyvesant	king size, filter	1.5	1.4	1.4	1.4	*
Peter Stuyvesant	100 mm, filter	1.5	1.4	1.4	1.5	*
Philip Morris	reg. size, non-filter	1.5	1.4	1.4	1.3	1.1
Philip Morris Commander	king size, non-filter	1.9	1.8	1.7	1.6	1.5
Philip Morris International	100 mm, filter, (hard pack)	*	*	*	*	1.1
Philip Morris International	100 mm, filter, menthol, (hard pack)	*	*	*	*	1.0
Pitney	reg. size, non-filter	1.5	1.6	1.6	1.6	1.5
Pitney	reg. size, non-filter	1.5	1.5	1.5	1.5	1.5
Pitney	reg. size, non-filter, (hard pack)	2.3	2.2	2.2	2.1	2.1
Players	king size, non-filter	1.7	1.6	1.5	1.5	1.4
Raleigh	king size, filter	1.2	1.2	1.1	1.0	1.0
Raleigh	king size, filter	1.3	1.3	1.1	1.1	1.2
Raleigh	100 mm, filter	*	*	0.9	0.9	0.9
Raleigh Extra Mild	king size, filter	*	*	1.3	*	*
Rudford	king size, filter	1.5	1.4	1.3	1.2	1.1
St. Moritz	100 mm, filter	1.4	1.3	1.1	1.3	1.2
St. Moritz	100 mm, filter, menthol	*	*	*	1.4	1.4
Safari	100 mm, filter	*	*	*	*	1.3
Salem	king size, filter, menthol, (hard pack)	1.3	1.3	1.3	1.2	1.3
Salem	king size, filter, menthol	1.5	1.4	1.4	1.3	1.3
Salem	100 mm, filter, menthol	*	*	*	*	1.3
Salem Extra	king size, filter, menthol	0.6	0.6	0.5	0.5	0.8
Sano	reg. size, non-filter	0.2	0.2	*	*	*
Sano	reg. size, filter	1.1	1.2	1.2	1.2	1.2
Silva Thins	100 mm, filter	1.1	1.2	1.2	1.1	1.1
Silva Thins	100 mm, filter, menthol	1.2	1.2	1.2	1.1	1.2
Spring 100's	100 mm, filter, menthol	*	1.4	*	*	*
Stratford	king size, non-filter	*	0.9	*	*	*
Stratford	king size, filter	*	*	*	*	1.2
Super M	100 mm, filter, menthol	1.3	1.4	1.4	1.3	1.3
Tareyton	king size, filter	1.4	1.5	1.5	1.4	1.3
Tareyton	100 mm, filter	0.9	0.9	0.9	0.8	0.8
Tareyton	king size, filter	*	*	*	*	1.1
Tareyton	king size, filter	*	*	*	*	0.9
Tareyton	king size, filter, menthol	0.7	0.7	0.7	0.7	0.6
True	king size, filter	0.8	0.7	0.7	0.7	0.7
True	king size, filter, menthol	*	*	*	*	0.7
True	100 mm, filter	*	*	*	*	0.8
True	100 mm, filter, menthol	*	*	1.3	1.3	1.2
Twist	100 mm, filter, lemon/menthol	0.8	0.8	0.8	0.7	0.8
Vantage	king size, filter	1.0	0.9	0.9	0.8	0.8
Vantage	king size, filter, menthol	1.2	1.1	1.1	1.1	1.0
Viceroy	king size, filter	1.2	1.2	1.2	1.1	1.1
Viceroy	100 mm, filter	1.3	1.2	1.2	1.1	1.1
Viceroy Extra Mild	king size, filter	*	*	0.8	1.0	0.9
Virginia Slims	100 mm, filter	1.2	1.2	1.1	1.0	1.0
Virginia Slims	100 mm, filter, menthol	1.2	1.2	1.1	1.0	1.1
Vogue (black)	king size, filter, (hard pack)	1.2	1.2	1.3	1.1	*
Vogue (color)	king size, filter, (hard pack)	0.9	0.9	0.9	0.8	*
Winchester	king size, filter	*	*	*	*	1.3
Winchester	king size, filter, menthol	*	*	*	*	1.2
Winston	king size, filter, (hard pack)	1.3	1.4	1.3	1.3	1.3
Winston	king size, filter	1.4	1.3	1.3	1.3	1.4
Winston	king size, filter	1.3	1.3	1.3	1.3	1.3
Winston	100 mm, filter	1.4	1.4	1.4	1.3	1.4
Winston	100 mm, filter, menthol	*	*	*	*	1.0
Winston Lights	king size, filter	*	*	*	*	*

* Denotes varieties not available during market sampling
 1 Test market cigarette with white overwrap

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